

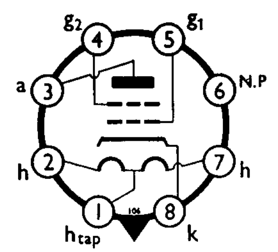
OUTPUT TETRODE

25V INDIRECTLY HEATED

KT33C

NOVEMBER, 1955

BASE CONNECTIONS AND VALVE DIMENSIONS



View from underside of base.

Base : International octal.
Bulb : Dome top pear.

Max. overall length :	119 mm.
Max. seated length :	104 mm.
Max. diameter :	45 mm.

RATINGS

V_h	25	13		V
I_h	0·3	0·6		A
V_a		200	max.	V
V_{g2}		200	max.	V
p_a		13	max.	W
g_m {at $V_a = V_{g2} = 175$, $V_{g1} = -7$}		10		mA/V

CAPACITANCES

c_{in} 19 pF c_{out} 12 pF $c_{a\text{-}g1}$ 1·2 pF

TYPICAL OPERATION

Single valve Class A

Tetrode connection

V_a	200	150	V
V_{g2}	200	150	V
V_{g1}	−13·3	−9·9	V
$I_{a\ (o)}$	60	44	mA
$I_{g2\ (o)}$	10	8	mA
$v_{in\ (pk)}$	12·3	8·9	V
R_k	190	190	Ω
R_L	3	3	kΩ
P_{out}	5	3	W
D	8	8	%

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Push-pull Class AB_1 Two valves

Tetrode connection

V_a	200	150	V
V_{g2}	200	150	V
V_{g1}	−19·1	−13·2	V
$I_{a\ (o)}$	113	80	mA
$I_{g2\ (o)}$	18	12	mA
$v_{in\ (pk)\ (g\text{-}g)}$	44	24	V
R_k (per valve)	240	240	Ω
$R_{L\ (a\text{-}a)}$	4	4	kΩ
P_{out}	15·5	7·5	W
D	7·5	3·9	%

GENERAL

For the prevention of parasitic oscillation a series resistor of 100Ω should be connected directly to the screen grid tag of the valve socket.

A control grid series resistor of 10/50kΩ is also recommended.

The maximum permissible D.C. resistance between control grid and anode is limited to 0·47MΩ for auto-bias, and 0·1MΩ for fixed bias operation.

MOUNTING

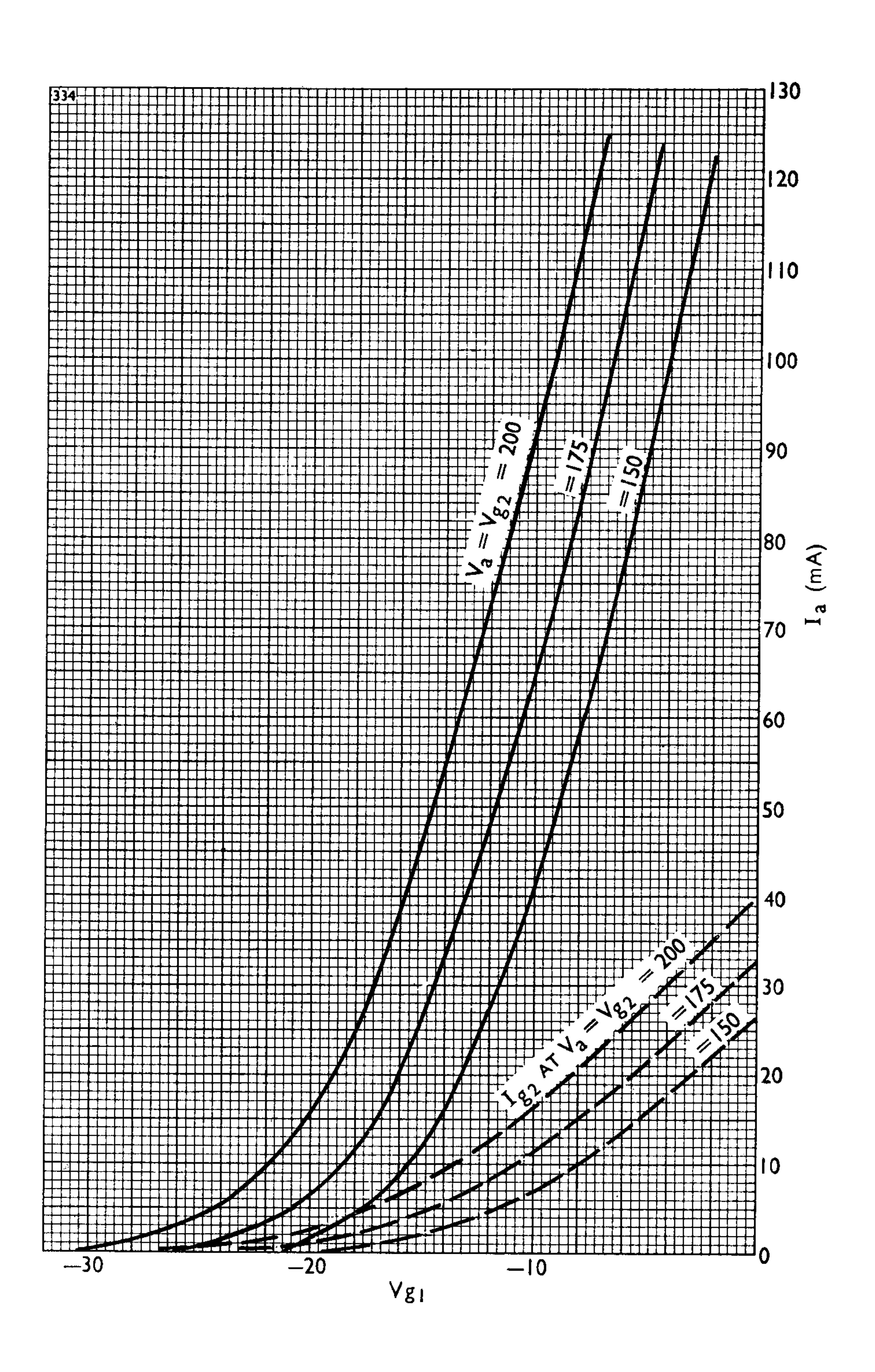
Any position.

RETAINING

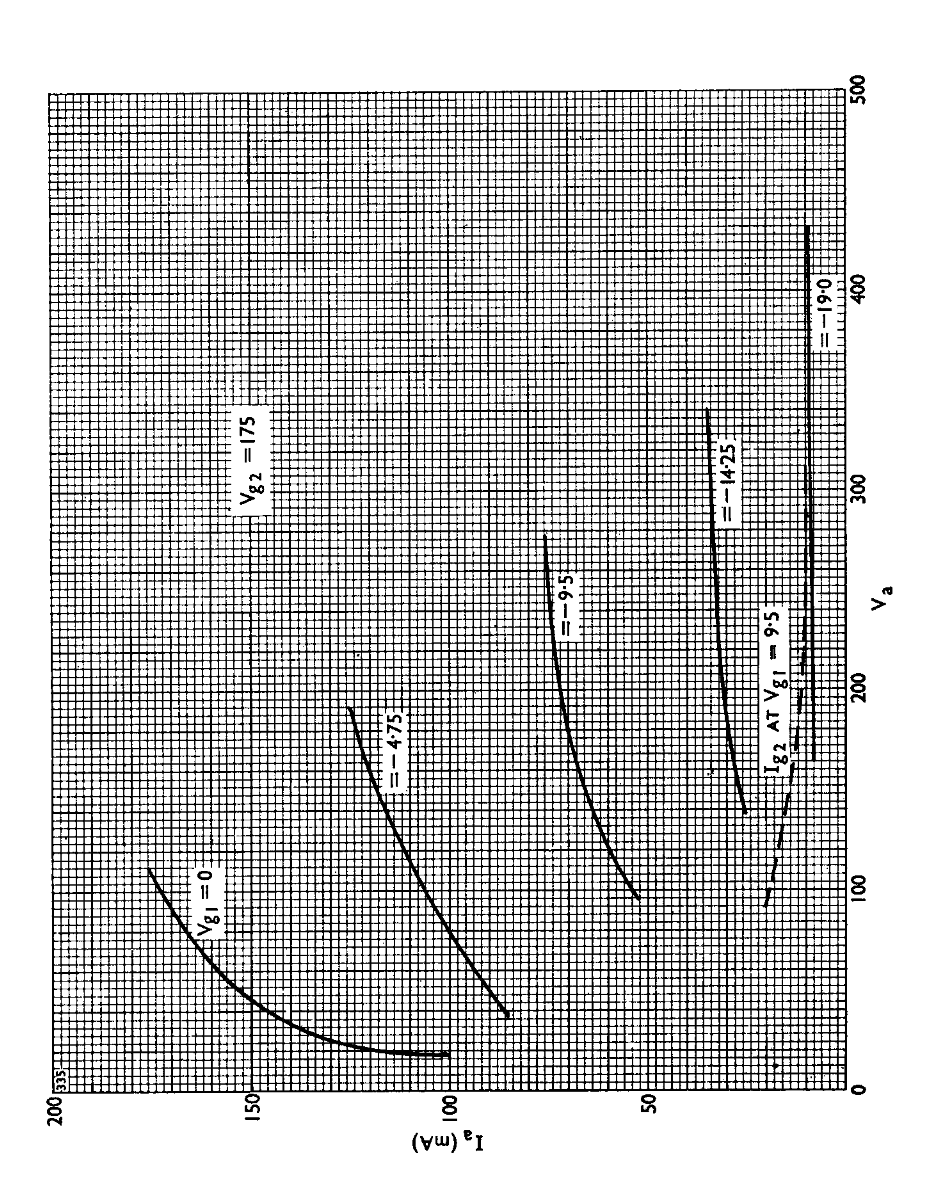
A retaining device is not normally necessary.

VENTILATION

Adequate ventilation around the bulb should be provided.


334
130
120
110
100
90
80
70
60
50
40
30
20
10
0
I_a (mA)
$V_a = V_{g2} = 200$
$=175$
$=150$
I_{g2} AT $V_a = V_{g2} = 200$
$=175$
$=150$
—30
—20
—10
V_{g1}

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